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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,664	01/17/2006	John David Jenkinson	20050701.ORI	3962
	7590 05/01/200 ERSEREAU, P.A.	8	EXAMINER	
	AVENUE SOUTH		SHIN, DANA H	
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			1635	
			MAIL DATE	DELIVERY MODE
			05/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/536,664	JENKINSON ET A	AL.			
Office Action Summary	Examiner	Art Unit				
	DANA SHIN	1635				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 Ma	ay 2005.					
	action is non-final.					
·=						
closed in accordance with the practice under E						
Disposition of Claims						
4) ☐ Claim(s) 48-78 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 48-78 are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the construction of the constructi	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: Notice to Cor	ite atent Application				

DETAILED ACTION

Sequence Rule Compliance

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth below or on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

At least claim 61 in the instant application contain amino acid sequences which are not preceded by "SEQ ID NO:". The examiner has not made a thorough review of the application for SEQ ID rule compliance. Applicant is encouraged to carefully review the entire application and ensure sequence rule compliance CFR §1.821(d) as written above. See also the attached Notice to Comply.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

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Group I, claim(s) 48-71 and 77-78, drawn to a method for promoting apoptosis in a cell and a method of treating a patient in need of <u>promotion</u> of apoptosis comprising introducing a triplex forming oligonucleotide or a peptide nucleic acid.

Group II, claim(s) 69, drawn to a method of treating a patient in need of <u>suppression</u> of an apoptosis-related gene.

Group III, claim(s) 71-72, drawn to a pharmaceutical composition for promoting apoptosis.

Group IV, claim(s) 73-74, drawn to a host cell comprising a molecule for promoting apoptosis.

Group V, claim(s) 75-76, drawn to a method of designing a molecule for suppressing an apoptosis-related gene.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The instant application contains claims to different categories of invention under the meaning of 37 CFR 1.475(b)-(d), wherein CFR 1.475(b) states:

"An international or a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn **only** to **one** of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or

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(5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

37 CFR 1.475(c) states:

"If an application contains claims to more or less than one of the combination of categories of invention set forth in paragraph (b) of this section, unity of invention might not be present."

37 CFR 1.475(d) also states:

"If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in the claims of the application and the first recited invention of each other categories related thereto will be considered as the main invention in the claims, see PCT Article 17(3)(a) and 1.476(c)."

Since the instant application contains multiple processes (e.g., methods of promoting apoptosis, designing a molecule, treating a patient by promoting apoptosis, treating a patient by suppressing apoptosis) and multiple products, it is concluded that the present application lacks unity of invention.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not

distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

Election of Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

PLZF, N-CoR, SMRT, Sin3, SAP18, SAP30, HDAC, NuRD, MAD1, MAD2, MAD3, MAD4, Rb and E7 for claims 57-60; Bcl-2, Bcl-XI, and Akt for claim 64; and different peptide sequences for claim 61.

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Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Claim 57: PLZF, N-CoR, SMRT, Sin3, SAP18, SAP30, HDAC, NuRD, MAD1, MAD2, MAD3, MAD4, Rb and E7.

Claim 58: N-CoR, SMRT, PLZF.

Claim 59: HDAC.

Claim 60: SAP18, E7, and MAD1.

Claim 64: Bcl-2, Bcl-XI, and Akt.

Claim 61: modified antennapedia homeodomain, HIV TAT internalization peptide, and SV40 nuclear localization signal.

The following claim(s) are generic: claim 48

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The molecules recited in claim 14 are structurally and

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functionally distinct because each of the molecules comprises different nucleotide/amino acid

sequences and therefore has a different structure which confers different molecular functions

from another.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DANA SHIN whose telephone number is (571)272-8008. The

examiner can normally be reached on Monday through Friday, from 8am-4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, James (Doug) Schultz can be reached on 571-272-0763. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dana Shin Examiner

Art Unit 1635

/J. E. Angell/ Primary Examiner, Art Unit 1635